1	Supplementary Information				
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3	CagA phosphorylation in Helicobacter pylori-infected B cells is mediated by the non-receptor				
4	tyrosine kinases of the Src and Abl family				
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12	Figure legends				
13	Fig. S1. Specificity of the in vitro kinase assay monitoring c-Src activity. (A) Cell lysates of the				
14	experiment shown in Fig. 3B were tested for phosphorylated CagA (pCagA ^{p135} and pCagA ^{p40}) using an				
15	anti-phospho-tyrosine antibody (α -p-Tyr) and total CagA (CagA p135 and CagA p40) using an antibody				
16	directed against the C-terminus of CagA (α -CagA Cterm). GAPDH is shown as a loading control. (B)				
17	Immunoprecipitation (IP) was performed using lysates of <i>H. pylori</i> -infected (wt) MEC1 cells using a				
18	polyclonal c-Src antibody (c-Src) or rabbit pre-immune-serum (Pis). Immunocomplexes were				
19	incubated with 10 μg Hp wt (wt) or $Hp\Delta cagA$ ($\Delta cagA$) lysate in kinase buffer as substrates as				
20	indicated. Phosphorylated CagA (pCagA), total CagA and c-Src were analyzed by immunoblotting.				
21	Presented sections are from the same Western blot membranes as shown in Fig. 3B.				
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23	Fig. S2. Specificity of the in vitro kinase assay monitoring c-Abl activity. (A) Cell lysates of the				
24	experiment shown in Fig. 3C were analyzed for phosphorylated CagA (pCagA ^{p135} and pCagA ^{p40}) and				
25	total CagA (CagA ^{p135} and CagA ^{p40}). Asterisks indicate unspecific detection of a tyrosine				

phosphorylated protein. GAPDH is shown as a loading control. **(B)** Immunoprecipitation was performed using cell lysates of uninfected (mock) or *H. pylori*-infected (wt) MEC1 cells using a monoclonal c-Abl antibody (c-Abl) or mouse pre-immune-serum (Pis). Immunocomplexes were incubated with 1 µg GST-CrkII aa120-225 (225) or GST-CrkII aa120-212 (212) that lacks Tyr²²¹, which is targeted by c-Abl. Phosphorylated GST-CrkII (pCrkII) and GST-CrkII were analyzed by immunoblotting. Presented sections are from the same Western blot membranes as shown in Fig. 3C. **(C)** Aliquots of immunoprecipitated c-Abl prior to the *in vitro* phosphorylation reaction were tested for efficient precipitation.

Fig. S3. CagA phosphorylation in MEC1 cells treated with 0.1 μM dasatinib. MEC1 cells were treated with 0.1 μM dasatinib prior to infection with *H. pylori* or remained untreated (-). Whole cell lysates were analyzed by immunoblotting using an anti-phospho-tyrosine antibody (α -p-Tyr) to detect phosphorylated full length CagA (p-CagA^{p135}) and the C-terminal CagA fragment (p-CagA^{p40}). A monoclonal anti-CagA antibody recognizing the C-terminal part of CagA (α -CagA^{Cterm}) was applied to show full length and fragmented CagA (CagA^{p135}, CagA^{p40}). As a loading control, the blot was reprobed with anti-GAPDH.

Table 1. Mammalian cell lines.

Cell line	Source ¹	Cell type	Growth properties	Origin
	(Catalogue no.)			
AGS	ECACC (89090402)	epithelial	adherent	Gastric adenocarcinoma, caucasian female (54 yr)
U937	ATCC (CRL-1593.2)	monocyte	suspension	Histiocytic lymphoma, caucasian male (37 yr)
MEC1	DSMZ (ACC-497)	B cell	suspension	Chronic B cell leukemia, caucasian male (61 yr)

¹ ATCC, American Type Culture Collection (www.atcc.org); DSMZ, Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH (www.dsmz.de); ECACC, European Collection of Cell Cultures (www.ecacc.org.uk).